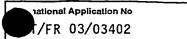
INTERNATIONAL SEARCH REPORT itional Application No 16 MAY 2005 /FR 03/03402 A. CLASSIFICATION OF SUBJECT MAT IPC 7 F16B13/06 E F16B13/12 E04F13/14 E04F13/08 E06B3/54 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) F16B E06B E04F Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to daim No. Citation of document, with Indication, where appropriate, of the relevant passages Category ° 1-18 EP 0 931 942 A (DOCIPA S R L) 28 July 1999 (1999-07-28) column 4, line 2 - line 5; claims 1-5; figures 1-6 1 - 18US 5 718 547 A (EISCHEID KARL) Y 17 February 1998 (1998-02-17) column 4, line 33 - line 50 column 5, line 31 - column 6, line 9; claims 1-8; figures 6-8 column 1, line 23 - line 36 column 2, line 47 - column 3, line 19 11-18 EP 0 340 089 A (VER GLASWERKE GMBH ; SAINT Υ GOBAIN VITRAGE (FR)) 2 November 1989 (1989-11-02) abstract; figures 1-3 -/--

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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
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Date of the actual completion of the International search 22 April 2004	Date of mailing of the international search report 07/05/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo n!, Fax: (+31-70) 340-3016	Authorized officer Bousquet, K

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INTERNATIONAL SEARCH REPORT



:(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Calegory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
′	US 2002/020119 A1 (OBERHOFER ALFONS ET AL) 21 February 2002 (2002-02-21)	8				
\	claims 1-9; figures 1-4,7	1-7, 11-18				
	WO 01/09459 A (LIND STEFAN; FISCHER ARTUR WERKE GMBH (DE)) 8 February 2001 (2001-02-08) cited in the application page 1, paragraph 2 page 2, paragraph 2; figure 1	1-5				

1

INTERNATIONAL SEARCH REPORT

nformation on patent family members

onal Application No PC1/FR 03/03402

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0931942	A	28-07-1999	EP AT DE DE ES	0931942 A1 225465 T 69808420 D1 69808420 T2 2185135 T3	28-07-1999 15-10-2002 07-11-2002 10-07-2003 16-04-2003
US 5718547	A	17-02-1998	DE AT AU WO DE EP ES JP	9306937 U1 152215 T 679493 B2 6036094 A 9419613 A1 59402535 D1 0685042 A1 2101510 T3 8506882 T	19-08-1993 15-05-1997 03-07-1997 14-09-1994 01-09-1994 28-05-1997 06-12-1995 01-07-1997 23-07-1996
EP 0340089	Α	02-11-1989	FR AT DE DE DE EP ES	2630766 A1 78550 T 3908983 A1 68902172 D1 68902172 T2 0340089 A1 2034671 T3	03-11-1989 15-08-1992 09-11-1989 27-08-1992 18-02-1993 02-11-1989 01-04-1993
US 2002020119	A1	21-02-2002	DE AU CA WO EP JP ZA	29917488 U1 7523800 A 2353591 A1 0125582 A1 1091076 A1 2003524715 T 200104391 A	15-02-2001 10-05-2001 12-04-2001 12-04-2001 11-04-2001 19-08-2003 17-07-2002
WO 0109459	A	08-02-2001	DE AT BR CN CZ DE DK WO EP HU JP PL RU US	29913278 U1 259457 T 0012756 A 1130491 B 20020363 A3 50005267 D1 1198648 T3 0109459 A1 1198648 A1 0201534 A2 2003506596 T 353281 A1 2213834 C1 6632056 B1	07-12-2000 15-02-2004 02-04-2002 10-12-2003 16-10-2002 18-03-2004 08-03-2004 08-02-2001 24-04-2002 28-10-2002 18-02-2003 03-11-2003 10-10-2003